

**Notice of Allowability**

Application No.

09/889,126

Examiner

Matthew T. Henning

Applicant(s)

WETTERGREN, CHRISTIAN

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the communication dated 3/7/2007.
2. ☒ The allowed claim(s) is/are 22-37.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☒ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

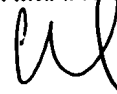
**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413), Paper No./Mail Date 5/18/07
7. ☒ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_

**CHRISTOPHER REVAK**  
**PRIMARY EXAMINER**



## **DETAILED ACTION**

### ***Allowable Subject Matter***

The following is an examiner's statement of reasons for allowance: The reasons for allowance are the same as the reasons presented in the office action dated 1/29/2007.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Roland E. Long, Jr. on 5/15/2007.

The application has been amended as follows:

Please amend claims 33 and 36 as follows:

Claim 33. System for data processing a security critical activity in a secure management mode in a computer, the system comprising:

a computer comprising a computer processor, a bridge, and a main memory connected to the computer processor via the bridge;

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a security device comprising a security device processor with a protection mode signal generator (SGpm), the security device processor connected to the bridge;

a switch connected between the bridge and the main memory, the switch containing an information table and a comparator, the table having accessibility allocations specifying parts of the main memory allocated only to the security device and other parts of the main memory allocated to the computer processor operating in a normal mode,

the table of the switch being changeable only under control of signals generated by the security device; and

signal receivers connected to the switch, wherein,

the switch is connected to address lines and to operation lines of the computer,

the switch is configured for i) a first normal mode wherein the computer processor has access to a first part of the main memory, and ii) a second protected mode wherein the computer processor is denied access to the first part of the main memory and the security processor is allowed access to the first part of the main memory and to execute a security critical activity with the first part of the main memory,

said signals from the security device, enabling the security device and the security processor access to the main memory and denying the computer processor access to the main memory, changes the ~~switches~~ switch from the first normal mode into the second protection mode, and

the computer processor and the security device processor are separate processors.

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Claim 36. System for data processing a security critical activity in a secure management mode in a computer, the system comprising:

a computer comprising a computer processor, a computer bus, a main memory, a connecting element connecting the computer processor to the main memory;

a security device comprising a security device processor with a protection mode signal generator (SGpm) and an alter signal generator (SGa), the security device processor connected by the connecting element to the main memory;

a switch connected between the connecting element and the main memory, the switch containing a table and a comparator, the table having accessibility allocations for the security device and for the computer processor,

the switch being changeable only under control of signals generated by the security device; and

an alter signal receiver (SRa), a source signal receiver (SRs), and a protection mode signal receiver (SRpm) connected to the switch, wherein,

the switch is connected to address lines and to operation lines of the bus,

the switch is configured for i) a first normal mode wherein the computer processor has access to a first part of the main memory, and ii) a second protected mode wherein the computer processor is denied access to the first part of the main memory and the security processor is allowed access to the first part of the main memory to execute a security critical activity with the first part of the main memory,

said signals from the security device, enabling the security device and the security processor access to the main memory and denying the computer processor access to the main

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memory, changes the ~~switches~~ switch from the first normal mode into the second protection mode, and

the computer processor and the security device processor are separate processors.

### *Conclusion*

Claims 22-37 are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Matthew T. Henning whose telephone number is (571) 272-3790.

The examiner can normally be reached on M-F 8-4.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on (571) 272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Matthew Henning/  
Assistant Patent Examiner  
Art Unit 2131  
5/18/2007

CHRISTOPHER REVAK  
PRIMARY EXAMINER

